

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) A system for reducing personal security device (PSD) ~~PSD~~ data throughput latency comprising:

a client including at least a data storage means section, a data processing means section, ~~cryptography means~~, and an I/O port for functionally connecting to a PSD, wherein:

said data processing means section ~~includes means for allocating and reserving~~ allocates and reserves storage space in said data storage means section of said client for use as a memory cache;

said data processing means section further includes a cache server program for managing data stored inside said PSD, wherein said cache server program ~~is assigned exclusive rights to said assigned I/O port and said memory cache and~~ includes a first means for section that:

transferring transfers at least a portion of said data stored inside said PSD to said memory cache; and

retaining retains access rights associated with said transferred data;

and a second section that:

receiving intercepts requests for data contained in the PSD from at least one requesting program having access rights to at least a portion of said transferred data;

verifying verifies access rights by of said at least one requesting program; and

transferring transfers at least a portion of said cached data to said at least one requesting program, wherein said first section is activated independently from and prior to said second section.

2. (Currently Amended) The system according to claim 1, wherein said client includes a cryptography section and said cache server program cryptographically protects said data transferred from said PSD to said memory cache using said cryptography means section.

3. (Original) The system according to claim 2, wherein said cache server program removes said cryptographic protection from said data being transferred to said at least one requesting program.

4. (Currently Amended) The system according to claim 1, wherein said memory cache cached is flushed upon a status change.

5. (Currently Amended) The system according to claim 4, wherein:

said cache server program is assigned exclusive rights to said assigned I/O port and said memory cache; and

said assigned exclusive rights to said assigned I/O port and said memory cache are released upon said status change.

6. (Currently Amended) The system according to claim 4, wherein said status change includes logout of an end user, attempted login of a second end user, rebooting of said client, or upon encountering an error situation.

7. (Original) The system according to claim 1, wherein said cache server program is executed following successful end user validation by said PSD.

8. (Currently Amended) The system according to claim 1, where said memory cache is volatile memory.

9. (Currently Amended) A method for reducing personal security device (PSD) PSD data throughput latency comprising:

functionally connecting a PSD including at least some data to a client, wherein said client includes at least a data storage

means section, a data processing means section, ~~cryptography means~~,
and an I/O port,

executing a cache server program in said client,
allocating storage space in said data storage means section
for use in caching said at least some data in a memory cache,
accessing said PSD through said I/O port by said cache server
program,

transferring said at least some data from said PSD to said
memory cache,

retaining access rights to said at least some data by said
cache server program,

receiving intercepting requests for data contained in the PSD
from at least one requesting program having access rights to at
least a portion of said transferred data₁₇

verifying said access rights by of said at least one
requesting program₁₇ and

transferring at least a portion of said cached data to said at
least one requesting program, wherein:

transferring said at least some data from said PSD to said
memory cache and retaining access rights are executed before and
independently from intercepting requests, verifying said access
rights and transferring at least a portion of said cached data to
said at least one requesting program.

10. (Currently Amended) The method according to claim 9 further including the steps of:

assigning exclusive rights to said I/O port and said memory cache to said cache server program,

cryptographically protecting said data transferred from said PSD to said memory cache, and

removing said cryptographic protection from said data transferred to said at least one requesting program.

11. (Currently Amended) The method according to claim 9 or 10 wherein said cache server program is executed following successful PIN personal identification number validation by said PSD.

12. (Currently Amended) The method according to claim 10 wherein said memory cache is flushed upon a status change.

13. (Original) The method according to claim 12 wherein said assigned exclusive rights to said I/O port and said memory cache are released upon said status change.

14. (Currently Amended) The method according to claim 12 or 13 wherein said status change includes logout of an end user,

attempted login of a second end user, rebooting of said client, or upon encountering an error situation.

15. (New) The system according to claim 1, wherein said cache server program is assigned exclusive rights to said I/O port and said memory cache.